Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.   (Currently Amended) A method of ~~notifying~~ notifying, within one node of an ad-hoc network, changes of state ~~in the~~ of the resources of ~~a~~ the ad-hoc network to at least one application of an application layer of the ad-hoc network and adapted to execute on the ad-hoc network, the at least one application being sensitive to changes of state of the ad-hoc network, the method comprising the following ~~steps:~~ steps, performed on said one node of the ad-hoc network:

registering said at least one application of ~~a node~~ the one node with a change-of-state notification means provided on the one node,

extracting routing information from a transport or network layer of the ad-hoc network, with said change-of-state notification means with which the application has previously been registered; and

forwarding said routing information extracted by the notification means to the application, ~~wherein~~ so that the application can exploit said routing information.

~~the steps are performed within a same node of the network.~~

2.   (Currently Amended) A change-of-state notification method according to claim 1, wherein, during the registering ~~step~~ by which the application was registered with the change-of-state notification means, a fraction of nodes and/or of links of the ad-hoc network is selected so that the information that is extracted and forwarded to said application is routing information relating to said selected fraction of the nodes and/or of the links.

3.   (Currently Amended) A change-of-state notification method according to claim 1, wherein ~~the network is an ad-hoc network, and~~ the routing information is extracted by interrogating a routing protocol implemented in the ad-hoc network.

4.   (Currently Amended) A change-of-state notification method according to claim 3, wherein the routing information is extracted from routing tables exchanged by a proactive routing protocol of the ad-hoc ~~network, in particular the OLSR protocol.~~ network.

5.   (Currently Amended) A change-of-state notification method according to claim 1, further including a step of dynamically extending the notification means during which new extraction rules are introduced into the notification means corresponding to new routing information that has been deployed on the ad-hoc network.

6.   (Currently Amended) A computer-readable recording medium storing a computer program for performing within one node of an ad-hoc network, a change-of-state notification method, the method executed by a computer, wherein the program includes, for an application of ~~a node~~ the one node that has previously been registered with the program, the application being sensitive to changes of state of the ad-hoc network, instructions causing the computer ~~to:~~ to operate the one node of the ad-hoc network as follows:

operate as means for registering the application of the one node with a change-of-state notification means provided on the one node;

operate as means for extracting routing information from a transport or network layer of the ad-hoc network, with said change-of-state notification means; and

operate as means for forwarding the extracted routing information to the application, ~~wherein~~ so that the application can exploit said routing information.

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~~registering of the application of the node, extracting routing information and~~ ~~forwarding the extracted routing information are performed within a same node of the~~ ~~network.~~

7.   (Currently Amended) A system for ~~notifying~~ notifying, within one node of an ad-hoc network, changes-of-state ~~in the~~ of the resources of ~~a~~ the ad-hoc network, the system comprising the ad-hoc network and at least one application adapted to execute on the ad-hoc network, the at least one application being sensitive to changes of state of the ad-hoc network, and including a computer program installed ~~on~~ on ~~at least~~ one node of the ad-hoc network, the program including, for an application of the one node that has previously been registered with the program, instructions for causing the one node ~~to:~~ to operate as follows:

operate as means for registering the application of the one node with a change-of-state notification means provided on the one node;

operate as means for extracting routing information from a transport or network layer of the ad-hoc network, with said change-of-state notification means; and

operate as means for forwarding the extracted routing information to the application, ~~wherein~~ so that the application can exploit the routing information.

~~the registering of the application of the node, extracting routing information~~ ~~and forwarding the extracted routing information is performed within a same node of a~~ ~~network.~~

8.   (Currently Amended) A node of ~~a~~ an ad-hoc network, comprising routing applications, the node storing a computer program including, for an application of the node that has previously been registered with the program, the application being sensitive to changes of state of the ad-hoc network, instructions for causing the node to:

operate as means for registering of the application of the node with a change-of-state notification means provided on the node;

operate as means for extracting routing information from a transport or network layer of the <u>ad-hoc</u> network with said change-of-state notification means; and

operate as means for forwarding the extracted routing information to the application, ~~wherein~~<u>so that the application can exploit said routing information.</u>

~~the registering of the application of the node, extracting routing information and forwarding the extract routing information are performed within the node.~~

9.   (New) A change-of-state notification method according to claim 4, wherein the proactive routing protocol is the OLSR protocol.